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Enterprise Architect - Use Case Model

... implement some or all of the Login **functionality**. ... or realisation links define the **traceability** from the formal **requirements**, through **Use Cases** on to ...

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... **Use Cases** are a showcase in which **requirements** are ... | **Traceability** should be performed by those ... to go from individual **functional requirement** to individual ...

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Traceability Strategies for Managing Requirements with Use Cases

... 3 Software **Requirements** (both **functional** and non-**functional**). ... all of the traditional **traceability** types and the component parts of the **use-case model** opens up ...

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Use Cases and Testing

... having our domain expert scour the **use cases**, we proceed ... the third type of testing—**traceability** testing. ... we can trace from the **functional requirements** to the ...

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... **Functional requirements** • **Non-functional requirements** • **Validation rules** • **Traceability**. ... Link with **use cases** • **Validation rules**. ...

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... buildable & verifiable **functional requirements**—especially for large ... Volatility = # Changes / # **Requirements**. **Traceability** = # **Use Cases** Traced to Test Cases. ...

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[PPT] Use Case Modeling

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... Better **traceability**. Easier user validation of **functional requirements**. ... A **Use Case model** is described in UML (Unified Modeling Language) as one or more **Use Case** ...

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... **use case**; 5. Special **Requirements**: **Non-functional requirements** specific to ... and the creation of **traceability** links between visual **use cases** and their ...

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... **Use case** modelling can support **requirements traceability**. ... dynamic behaviour, specified by **functional requirements** and black-box **use cases**, was possible to ...

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... from Conflicts) Decision (from Decision) **Functional requirement** (from ... affects
to 1..* 0..* 1..* 0..* represents **Use cases** help in **traceability** in the ...

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Analyzing user requirements by use cases: a goal-driven approach

Lee, J. Nien-Lin Xue

Dept. of Comput. Sci. & Inf. Eng., Nat. Central Univ., Chung-Li, Taiwan;

*This paper appears in: **Software, IEEE***

Publication Date: July-Aug. 1999

On page(s): 92 - 101

Volume: 16 , Issue: 4

ISSN: 0740-7459

Reference Cited: 19

CODEN: IESOEG

Inspec Accession Number: 6316336

Abstract:

The purpose of requirements engineering is to elicit and evaluate necessary and valuable user needs. Current use-case approaches to requirements acquisition inadequately support use-case formalization and nonfunctional requirements. Based on industry trends and research, the authors have developed a method to structure use-case models with goals. They use a simple meeting planner system to illustrate the benefits of this new approach

Index Terms:

business data processing systems analysis user centred design goal-driven approach industry trends meeting planner system requirements acquisition requirements engineering research use-case models user needs user requirements analysis

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1 Attribute grammar paradigms—a high-level methodology in language
Jukka Paakki
June 1995 ACM Computing Surveys (CSUR), Volume 27 Issue 2
Full text available: pdf(5.15 MB) Additional Information: full citation, abstract, references, citings
Attribute grammars are a formalism for specifying programming languages. TI number of systems automatically producing language implementations from t their specification languages can be evaluated and classified according to thei characteristics, and degree of automation.A survey of attribute grammar-base modern advanced specification ...

Keywords: attribute grammars, blocks, classes, compiler writing systems, func incrementality, inheritance, language processing, language processor generati objects, parallelism, processes, programming paradigms, semantic functions,

2 Subject-oriented design: towards improved alignment of requirements, des
Siobhán Clarke, William Harrison, Harold Ossher, Peri Tarr
October 1999 ACM SIGPLAN Notices , Proceedings of the 14th ACM SIGPLAN confe systems, languages, and applications, Volume 34 Issue 10
Full text available: pdf(2.02 MB) Additional Information: full citation, references, citings

Keywords: analysis and design methods, software engineering practices

3 A survey of structured and object-oriented software specification methods :

Roel Wieringa

December 1998

ACM Computing Surveys (CSUR), Volume 30 Issue 4

Full text available:  pdf(605.26 KB)

Additional Information: full citation, abstract, references, cit

This article surveys techniques used in structured and object-oriented software specification. Techniques for the specification of external interaction and internal communication techniques are further subdivided into techniques for the specific communication. After surveying the techniques, we summarize the way they are used in object-oriented methods and indicate ways in which they can be improved.


Keywords: languages

4 PRIME—toward process-integrated modeling environments: 1

Klaus Pohl, Klaus Weidenhaupt, Ralf Dömges, Peter Haumer, Matthias Jarke, Ralf Reiser

October 1999

ACM Transactions on Software Engineering and Methodology (TOS

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Research in process-centered environments (PCEs) has focused on project management method guidance for the engineers performing the (software) engineering process. Research for suitable process-modeling languages and enactment mechanisms. Research on the computer-based engineering environments, i.e., the interactive tools used in PCEs, has been studied much less. In this article, we present a framework for the design and implementation of PCEs.

Keywords: PRIME, method guidance, process modeling, process-centered environments, process-sensitive tools, tool integration, tool modeling

5 Eliciting software process models with the E3 language

Maria Letizia Jaccheri, Gian Pietro Picco, Patricia Lago

October 1998

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Software processes are complex entities that demand careful understanding and modeling to ensure the quality of the resulting product. A necessary step toward the improvement of software processes is the description of the entities involved and of their mutual relationships. Process modeling is this description under the shape of a software process model. The model is composed of sources, process steps, and relationships.

Keywords: associations, process model elicitation, software process modeling

6 Draft report on requirements for a common prototyping system

R. P. Gabriel

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7 Evolutionary design of complex software (EDCS) demonstration days 1999

Wayne Stidolph

January 2000

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This report summarizes the Product/Technology demonstrations given at Defe (DARPA) Evolutionary Design of Complex Software (EDCS) Program Demonstr Sheraton National Hotel, Arlington, VA.

8 On randomization in sequential and distributed algorithms

Rajiv Gupta, Scott A. Smolka, Shaji Bhaskar

March 1994

ACM Computing Surveys (CSUR), Volume 26 Issue 1

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Probabilistic, or randomized, algorithms are fast becoming as commonplace as This survey presents five techniques that have been widely used in the design techniques are illustrated using 12 randomized algorithms—both seque a wide range of applications, including: primality testing (a classical problem i probabilistic proof s ...

Keywords: Byzantine agreement, CSP, analysis of algorithms, computational c distributed algorithms, graph isomorphism, hashing, interactive probabilistic p routing, nearest-neighbors problem, perfect hashing, primality testing, probat probabilistic algorithms, randomized quicksort, sequential algorithms, transitiv

9 UML (panel): the language of blueprints for software?

Derek Coleman, Viktor Ohnjec, John Artim, Erick Rivas, Jim Rumbaugh, Rebecca

October 1997 ACM SIGPLAN Notices , Proceedings of the 12th ACM SIGPLAN confe

systems, languages, and applications, Volume 32 Issue 10

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The Unified Method was launched by Grady Booch and Jim Rumbaugh at an O organised by Rational Software Corporation. In 1996 the Unified Method was i the Unified Modeling Language (UML). Earlier this year, UML was submitted to standardisation and has been endorsed by Microsoft, IBM, HP, Platinum Techn corporations. No wonder UML is the leading contender as the *d* ...

10 Performance evaluation of software architectures

Lloyd G. Williams, Connie U. Smith

October 1998 Proceedings of the first international workshop on Software and per

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11 Communication metrics for software development

Bernd Bruegge, Allen H. Dutoit

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Keywords: communication, empirical software engineering, software develop
projects

12 Gross motion planning—a survey

Yong K. Hwang, Narendra Ahuja

September 1992

ACM Computing Surveys (CSUR), Volume 24 Issue 3

Full text available:  pdf(6.40 MB)

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Motion planning is one of the most important areas of robotics research. The c
problem has hindered the development of practical algorithms. This paper sur
planning, including motion planners for point robots, rigid robots, and manipu
constrained, and movable-object environments. The general issues in motion
approaches and their performances are briefly described, a ...

Keywords: collision detection, computational geometry, implementation, moti
planning, spatial representation

13 Parallelism for free: efficient and optimal bitvector analyses for parallel prog

Jens Knoop, Bernhard Steffen, Jürgen Vollmer

May 1996 ACM Transactions on Programming Languages and Systems (TOPLAS)

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We consider parallel programs with shared memory and interleaving semantic
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counterparts and that can easily be implemented. Whereas the complexity res
result is a consequence of a new Kam/Ullman-style Coincidence Theorem. Th
algorithms for sequential programs computing liv ...

Keywords: assignment motion, bitvector problems, code motion, data flow an
semantics, parallelism, partial dead-code elimination, program optimization, s
synchronization

14 Different perspectives on information systems: problems and solutions

Kalle Lyytinen

March 1987

ACM Computing Surveys (CSUR), Volume 19 Issue 1

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The paper puts information systems (IS) research dealing with IS problems in surveyed and classified. Using the IS research framework suggested by Ives, problems is classified into several perspectives whose relevance in coping with perspectives focusing on IS operations environment, IS development process, development methods, and IS theories are distingu ...

15 The concurrency workbench: a semantics-based tool for the verification of

Rance Cleaveland, Joachim Parrow, Bernhard Steffen

January 1993

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The Concurrency Workbench is an automated tool for analyzing networks of fi Milner's Calculus of Communicating Systems. Its key feature is its breadth: a including equivalence checking, preorder checking, and model checking, are s semantics. One experience from our work is that a large number of interesting as combinations of a small number ...

Keywords: automatic verification, concurrency, finite-state systems, process a

16 Total correctness by local improvement in the transformation of functional p

David Sands

March 1996

ACM Transactions on Programming Languages and Systems (TOPLA

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The goal of program transformation is to improve efficiency while preserving r transformation techniques is Burstall and Darlington's unfold-fold method. Uni guarantees neither improvement in efficiency nor total correctness. The correc instance of a strictly more general problem: transformation by locally equivalence necessarily preserve (global) equivalence. Th ...

Keywords: correctness, improvement, operational equivalence, program trans

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Junichi Suzuki, Yoshikazu Yamamoto

September 1998

Proceedings of the 16th annual international conference on Comp

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Martin Steppler

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Mary Hunter Utt, Robert Mathews

October 1999 Proceedings of the 17th annual international conference on Comp

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Information architecture, like information development and delivery, has much counterpart. This paper describes how the Rational ClearCase® documentation architecture to meet changing industry, corporate, and product requirements. Our architecture development process mapped closely to the Rational Unified Process approach to software architecture and development ...

Keywords: ClearCase documentation, RUP, Rational Unified Process, informati

20 Increasing the flexibility of modelling tools via constraint-based specification

Philip Gray, Ray Welland

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Most commercial modelling tools provide support for customising surface features (interactive behaviour) of a model. Although useful and simple to use, such customisation, for example, one cannot change the basic representation of model components. For much greater customisation, but at a high cost, viz., the tool must be re-specified. This approach, constraint-based specification, ...

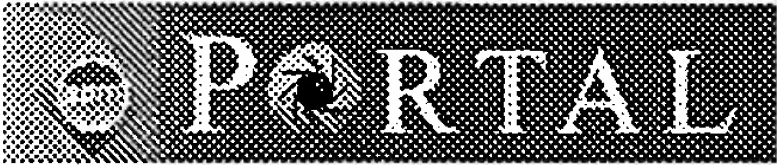
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Beans specification and the CORBA Component Model. We assess the state of
distributed components. We show several architectural styles for whose imple
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3 One and two-day tutorials: Usage-centered software engineering: an agile ; interfaces, and usability into software engineering practice

Larry L. Constantine, Lucy A. D. Lockwood

May 2003

Proceedings of the 25th International Conference on Software Engi

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Usage-centered design is a systematic, model-driven approach to visual and i record of effectiveness in a wide variety of settings and areas of application. T methods of usage-centered design and explores the integration of usage-cent engineering practice. Agile approaches to modeling will be emphasized, with t to usage-centered design and serve as a comm ...

4 Posters: Specifying and executing requirements: the play-in/play-out appro

Rami Marelly, David Harel, Hillel Kugler

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A powerful methodology for specifying scenario-based requirements of reactiv behavioral requirements are "played in" directly from the system's GUI or som behavior can then be "played out" freely, just as if a conventional system moc supported and illustrated by a tool we have built, which we call the *play-engir* many stages of system development, includi ...

Keywords: UML, requirements engineering, scenarios, system modeling and e

5 Security & analysis II: MAC and UML for secure software design

Thuong Doan, Steven Demurjian, T. C. Ting, Andreas Ketterl

October 2004

Proceedings of the 2004 ACM workshop on Formal methods in sec

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Security must be a first class citizen in the design of large scale applications, at early and all stages of the lifecycle, for accurate authorization, authentication, enforcement, and assurance. One software design is the <i>unified modeling language, UML,</i> visualizing, constructing and documenting software artifacts. In alternate perspectives for diffe ...

Keywords: UML, mandatory access control, security, software d

6 Change cases: use cases that identify future requirements

Earl F. Ecklund, Lois M. L. Delcambre, Michael J. Freiling

October 1996 ACM SIGPLAN Notices , Proceedings of the 11th ACM SIGPLAN conference systems, languages, and applications, Volume 31 Issue 10

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Evolution of software systems is prompted by all sorts of changes. This paper known construct in object-oriented analysis, is adapted to form the *change case* system changes. A change case provides the ability to identify and incorporate to enhance the long-term robustness of that design. In this paper, we define (change cases are capture ...

7 The use of object-oriented models in requirements engineering: a field study

Linda Dawson, Paul Swatman

January 1999 Proceeding of the 20th international conference on Information Systems

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8 How use case modeling policies have affected the success of various projects (modeling)

Periannan Chandrasekaran

January 1997 Addendum to the 1997 ACM SIGPLAN conference on Object-oriented applications (Addendum)



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9 How to identify binary relations for domain models

Hermann Kaindl

May 1996 Proceedings of the 18th international conference on Software engineering

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Many approaches to requirements engineering include building a model of the modeling or deriving from it employ the concept of relations between entities, more of an art than science or engineering. We deal with this problem primarily analysis (OOA), where relations between object classes are to be identified. O definitions of object classes and lo ...

Keywords: ATM, OOA, abstract data types, automated teller machine, automata processing, binary relations, domain models, entity relationship modeling, formal definitions, natural languages, object classes, object oriented analysis, object-experience, requirements engineering

10 Communication technology II - Internet, services, and architectures: Object the development of accommodation services system

Siti Hafizah Ab. Hamid, Tan Yoke Pei, Nazeen Jomhari

September 2003 Proceedings of the 1st international symposium on Information &

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This paper presents a case study highlighting the best practices in designing a system. It used web-based application and WAP-base application in a system. and UML in designing. All diagrams offered by UML were used successfully due adequate support for multi-technology and easily to use in term of using object study shows that object-oriented metho ...

Keywords: UML design, accommodation services system, object-oriented anal

11 Designing more deeper: integrating task analysis, process simulation, & ob

Keith A. Butler, Chris Exposito, Dan Klawitter

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Keywords: business oriented components, object modeling, process modeling,

12 Virtual extension: Object-oriented modeling with UML: a study of developer

Ritu Agarwal, Atish P. Sinha

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13 Software evolution in componentware using requirements/assurances cont

Andreas Rausch


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In practice, pure top-down and refinement-based development processes are incremental approach is applied instead. Existing methodologies, however, do development processes very well. In this paper, we present the basic concept: component ware and software evolution. The foundation of our methodology i component-based systems. This mode ...

Keywords: componentware, contracts, description techniques, formal methods architecture, software evolution


- 14 Subject-oriented design: towards improved alignment of requirements, design**
Siobhán Clarke, William Harrison, Harold Ossher, Peri Tarr
October 1999 ACM SIGPLAN Notices , Proceedings of the 14th ACM SIGPLAN conference
systems, languages, and applications, Volume 34 Issue 10
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Keywords: analysis and design methods, software engineering practices


- 15 Designing DEEPER: towards a user-centered development environment**
Keith A. Butler
August 1995 Proceedings of the conference on Designing interactive systems: professional
techniques
Full text available:  pdf(970.93 KB) Additional Information: full citation, references, citations

- 16 Comparing and reconciling usability-centered and use case-driven requirements**
A. Seffah, R. Djouab, H. Antunes
January 2001 Australian Computer Science Communications , Proceedings of the 22nd
interface, Volume 23 Issue 5
Full text available:  pdf(641.83 KB)  Publisher Site Additional Information: full citation, references, citations

During the two last decades, the human-computer interaction community has developed
and tools for gathering, specifying and validating usability requirements including
environment as well as usability goals such as effectiveness, efficiency and usability.
their importance are accepted by software developers, they are not yet cost-effective
engineering methodologies. This paper ...

- 17 Lessons from the battlefield**
Thomas P. Vayda
October 1995 ACM SIGPLAN Notices , Proceedings of the tenth annual conference
systems, languages, and applications, Volume 30 Issue 10
Full text available:  pdf(1.57 MB) Additional Information: full citation, abstract, references

The pragmatic aspects of deploying large scale Object Oriented (OO) applications
identifying some of the main obstacles that arise in typical large scale OO project
solutions. This The topics are based on a number of actual large scale projects
significant capacity and solutions that he adopted or developed to deal with them

- 18 Transition to object-oriented software development**
Mohamed E. Fayad, Wei-Tek Tsai, Milton L. Fulghum
February 1996 Communications of the ACM, Volume 39 Issue 2
Full text available:  pdf(451.14 KB) Additional Information: full citation, references, citations, index terms

19 Development of an OO infrastructure for mainframe database applications

Darryl James Rothering

October 1994 ACM SIGPLAN Notices , Proceedings of the ninth annual conference systems, language, and applications, Volume 29 Issue 10

Full text available:  pdf(839.77 KB)

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Large mainframe installations need and want to exploit the advantages of Obj abandoning their legacy environments. Implementing Object Orientation in su challenge: there is neither language support, nor development tools, nor exec Yet Object Orientation can be fully implemented, and a project can still meet tough delivery time scales. ...

20 Refactoring use case models: the metamodel

Kexing Rui, Greg Butler

February 2003 Proceedings of the twenty-sixth Australasian computer science conf practice in information technology - Volume 16

Full text available:  pdf(356.03 KB)

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This paper describes how refactoring as a concept can be broadened to apply use case modeling is described in detail, which represents our perspective on allows us to define several categories of use case refactorings that help us dis refactorings. A list of current refactorings is given. Finally, we illustrate the co simple example.

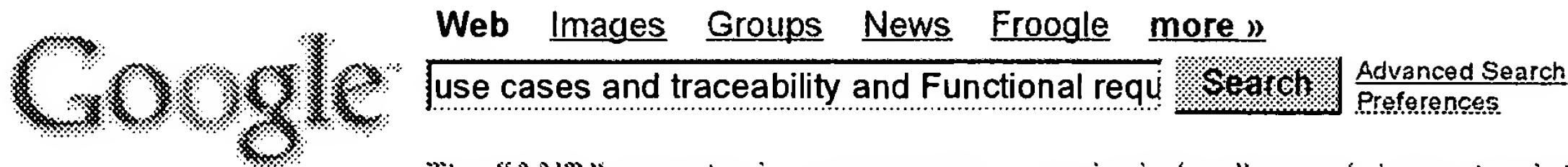
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